TA-F442E/F542E

SERVICE MANUAL

UK Model

Photo : TA-F542E

SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)

		TA-F442E	TA-F542E
DIN 1 kHz	4 ohms	110 W + 110 W	120 W + 120 W
	8 ohms	90 W + 90 W	100 W + 100 W
20 Hz – 20 kHz THD 0.008 %	8 ohms	80 W + 80 W	90 W + 90 W

Input

Input jack		Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	MM	Phono	2.0 mV	50 kilohms	94 dB (A, 5 mV)
	MC (F542E)		0.25 mV	100 ohms	76 dB (A, 0.5 mV)
TUNER, CD, AUX, TAPE1, DAT/TAPE2		Phono	150 mV	50 kilohms	100 dB (150 mV)

Output

Output jack	Jack type	Voltage/impedance
REC OUT	Phono	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	———	4 – 16 ohms (A or B) 8 – 16 ohms (A + B)
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.

Intermodulation (IM) distortion (60 Hz:7 kHz = 4:1)
Less than 0.008 % at rated output

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, AUX, TAPE1, TAPE2/DAT: 5 Hz – 120 kHz ±3 dB

Residual noise
Less than 170 μV, (network A)

Damping factor
70 (8 ohms, 1 kHz)

— Continued on page 2 —

INTEGRATED STEREO AMPLIFIER

SONY®

General

System	Preamplifier: Low-noise, high-gain equalizer amplifier Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Power requirements	240 V AC, 50 Hz
Dimensions	Approx.: 430 X 150 X 375 mm (w/h/d) (17 X 6 X 14 7/8 inches)
Weight	TA-F442E:10.4kg (22 lb 15 oz) TA-F542E:11.3kg (24 lb 15 oz)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC directive 87/308/EEC regarding interference suppression.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

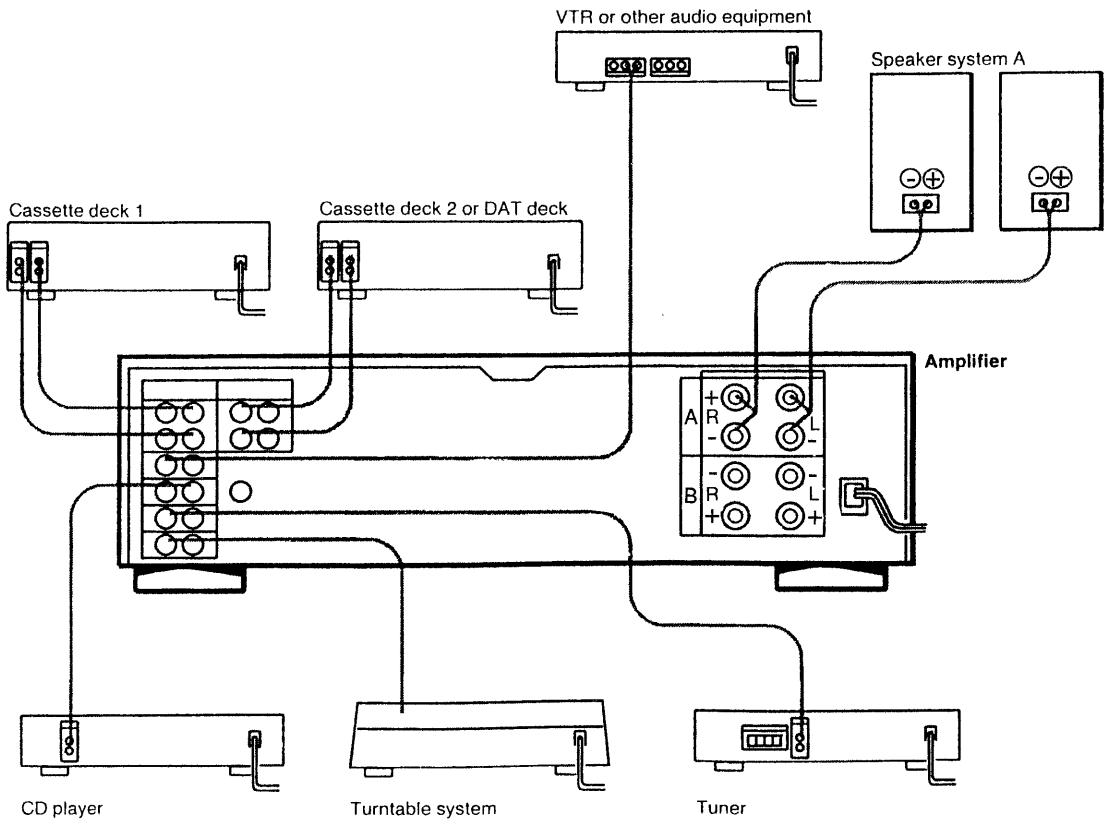
SECTION 1
GENERAL

This section is extracted from instruction manual.

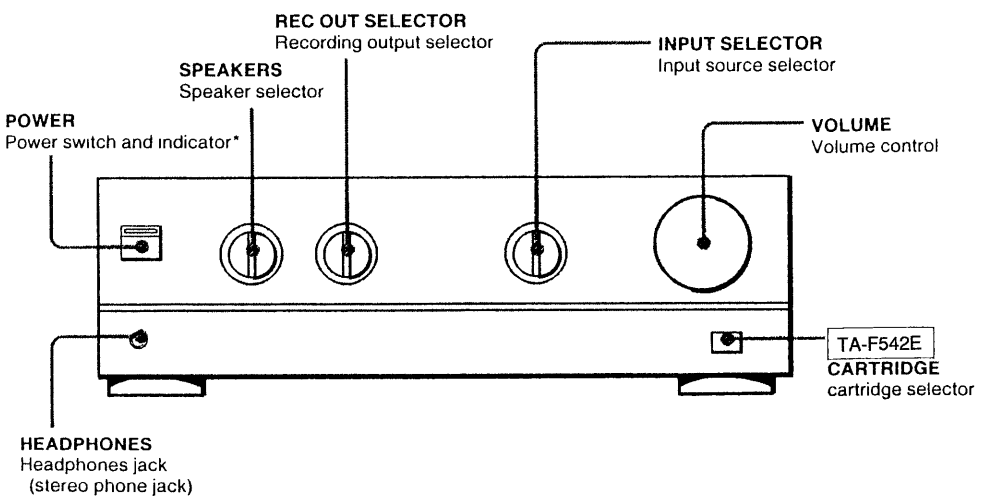
1-1. CONNECTIONS

Notes on Connection

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are colour coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).
- Fully insert cable connectors into jacks. Loose connections may cause hum or noise.



1-2. PARTS IDENTIFICATION



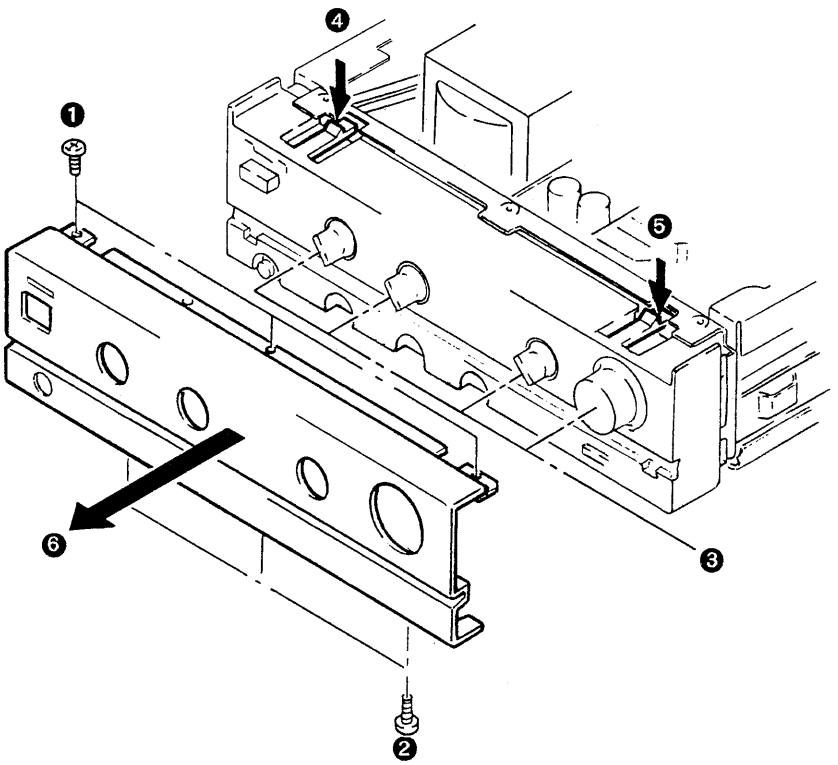
* When the power is turned on, the POWER indicator lights in red and immediately changed to green. If it remains in red or changes to red again, turn off the power, check that speakers and other devices are properly connected, and turn on the power again.

SECTION 2
DISASSEMBLY

2-1. DISASSEMBLING FOR BOARD CHECK (HP/LED BOARD)

Procedure :

1) Remove screws ❶, ❷.
2) Pull four knobs out ❸.
3) Press the claws ❹, ❺.
4) Remove front panel ❻.



SECTION 3
ELECTRICAL ADJUSTMENTS

DC Bias Adjustment

Perform this adjustment when replacing the transistors of the power amplifier.

Setup :

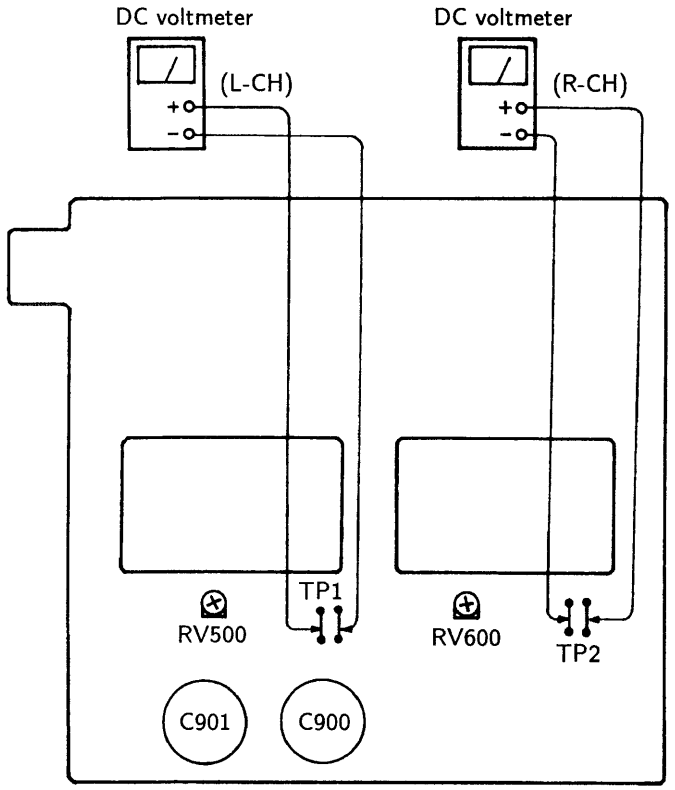
- No signal (no load)
- Minimum Volume

1. Connect the DC volt meter to the TP1 and the TP2.
2. After the power is turned on, complete within 15 seconds to adjust RV500 (L-CH) and RV600 (R-CH) so that the bias voltage bocomes 5mV ±0.3 mV.

Note : This adjustment must be completed within 15 seconds.

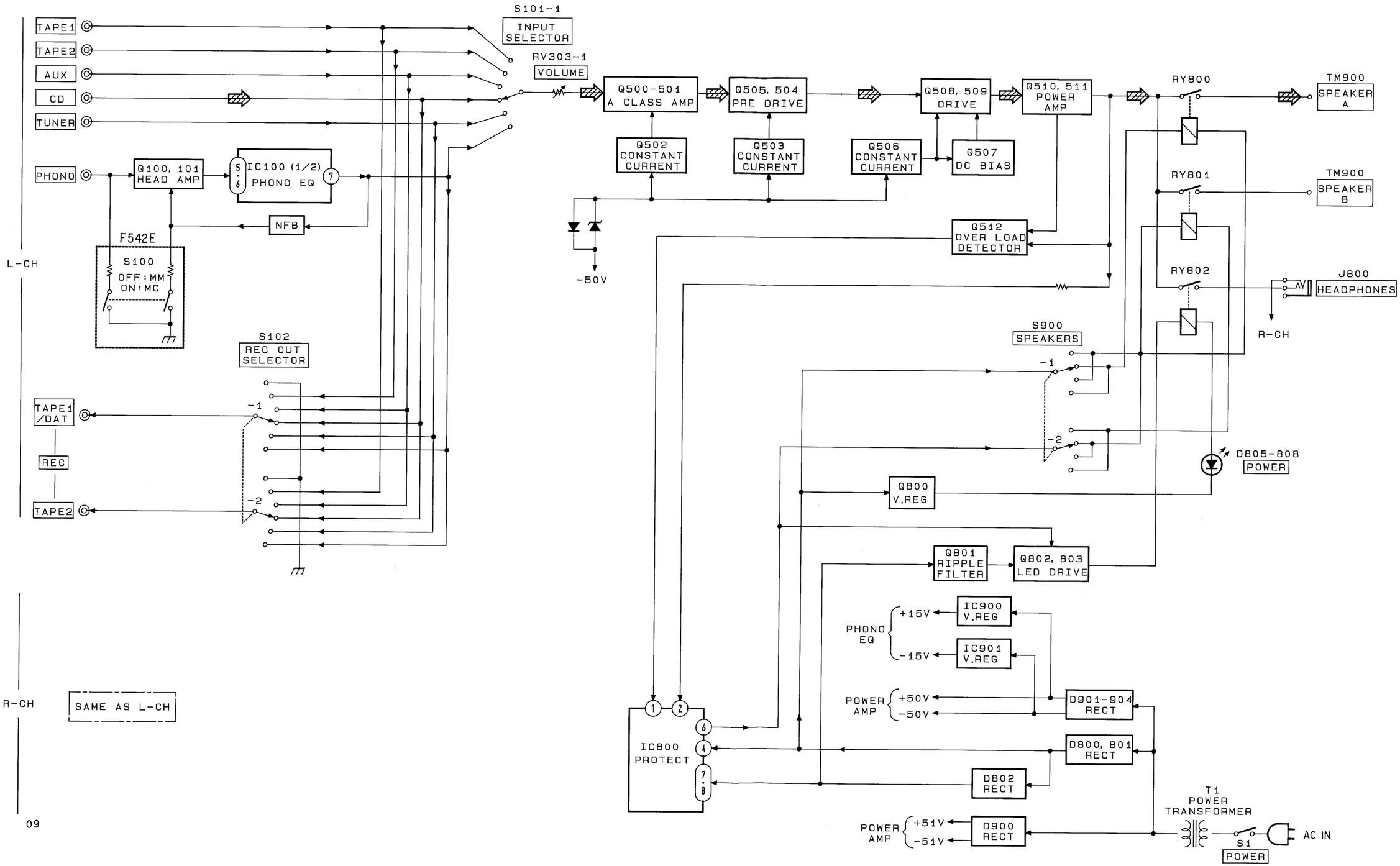
— Adjustment Location —

MAIN board

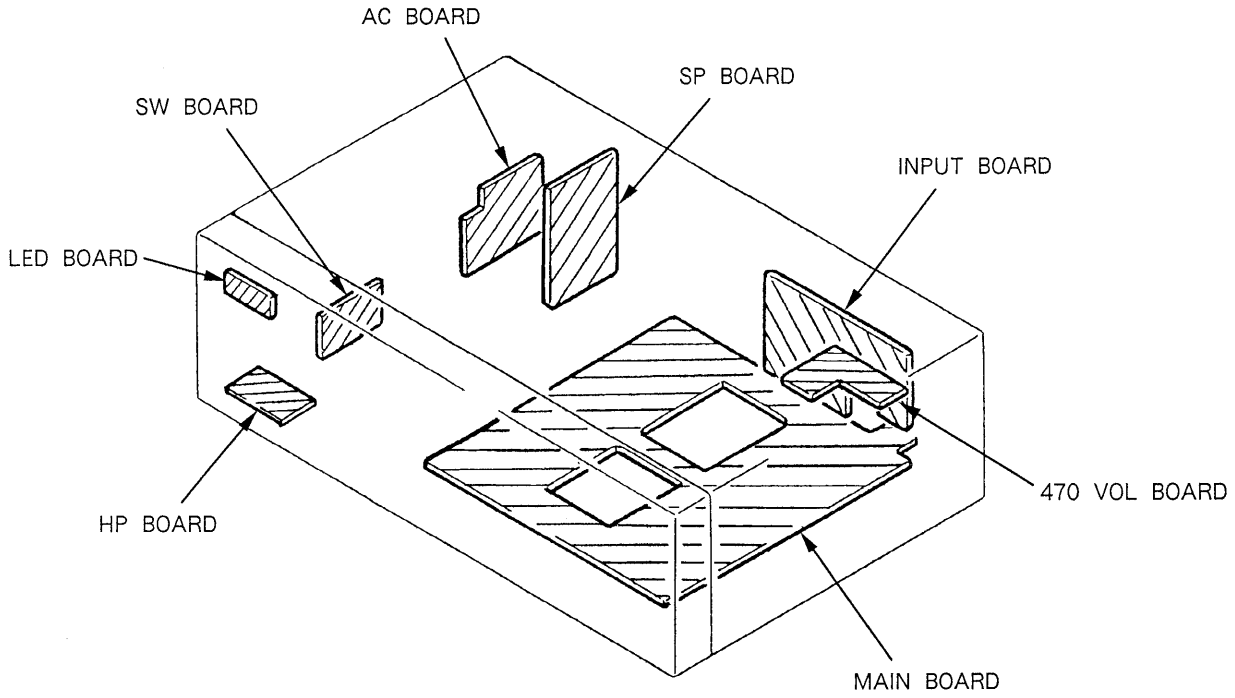


SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM



4-2. CIRCUIT BOARDS LOCATION



• SEMICONDUCTOR LEAD LAYOUTS

UZL-6H2
UZL-7H2

2SC2259-FG

2SA1215
2SC2921

2SA1115-EF
2SA1346

1N4148M
US1090M
11E21A2

2SC3907
2SA1516

2SA988-PAFAEA

2SC4793
2SA1837

RBV-602-01

2SC2229
2SA949
2SD774

μPC1237HA

2SC945-QP
2SC1841-PAFAEA
2SC2545-E

RC4560DD

TA7815S
TA7915S

2SD2012

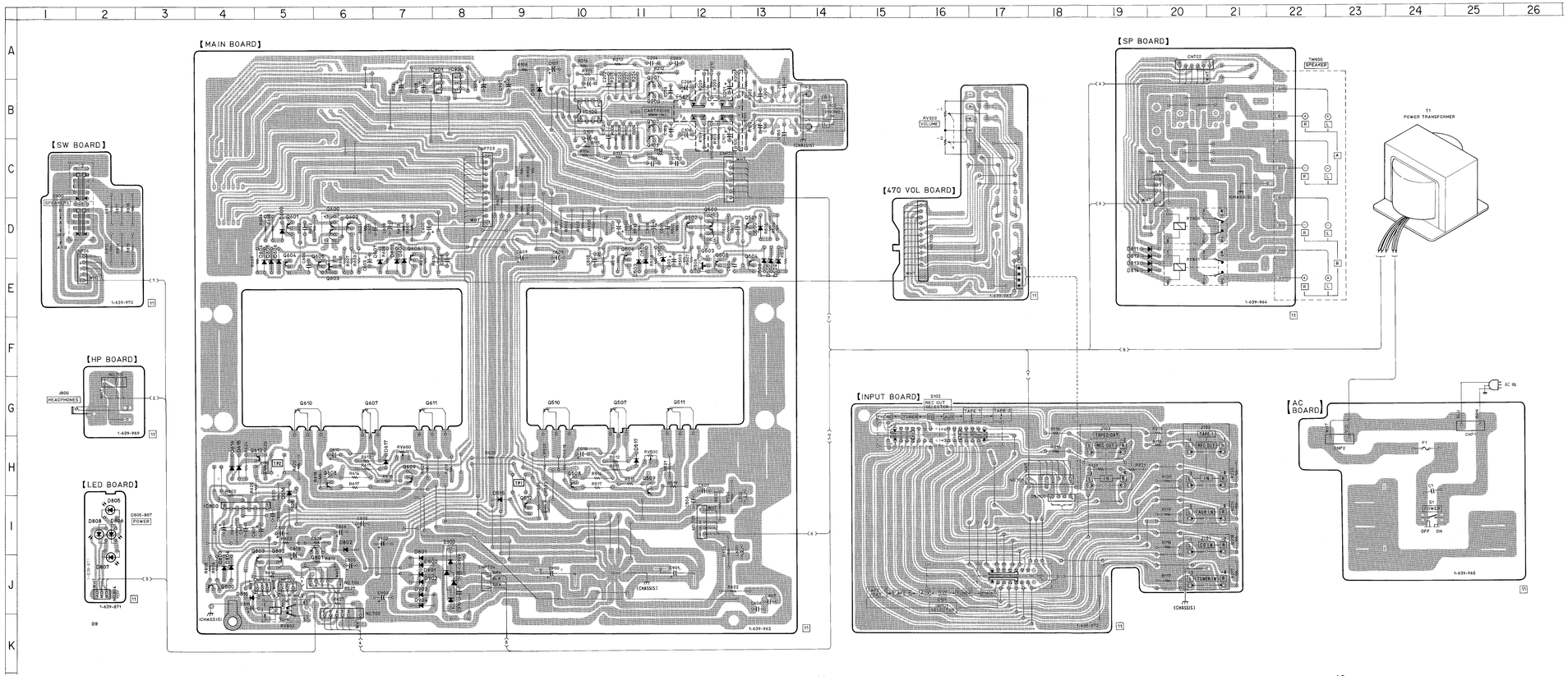
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D100	B-9	IC100	B-10
D500	D-13	IC800	I-4
D501	E-11	IC900	B-8
D502	E-11	IC901	B-8
D503	E-11		
D504	E-13	Q100	B-11
D505	E-13	Q101	C-11
D506	E-13	Q200	B-11
D515	I-9	Q201	B-11
D516	I-5	Q500	D-12
D517	H-11	Q501	D-13
D600	D-5	Q502	D-12
D601	E-7	Q503	E-12
D602	E-7	Q504	E-13
D603	E-7	Q505	E-12
D604	E-5	Q506	E-11
D605	E-5	Q507	G-11
D606	E-5	Q508	H-10
D615	H-4	Q509	H-11
D616	H-4	Q510	G-9
D617	H-7	Q511	G-12
D800	J-7	Q512	I-9
D801	J-7	Q600	D-6
D802	I-6	Q601	D-5
D803	J-4	Q602	D-6
D804	J-4	Q603	E-6
D805	I-2	Q604	E-5
D806	I-2	Q605	E-6
D807	J-2	Q606	E-7
D808	I-2	Q607	G-6
D811	D-20	Q608	H-6
D812	E-20	Q609	H-7
D813	E-20	Q610	G-5
D814	E-20	Q611	G-7
D815	J-4	Q612	H-5
D900	J-8	Q800	J-4
D901	J-7	Q801	J-6
D902	J-7	Q802	J-5
D903	J-7	Q803	J-5
D904	J-7		

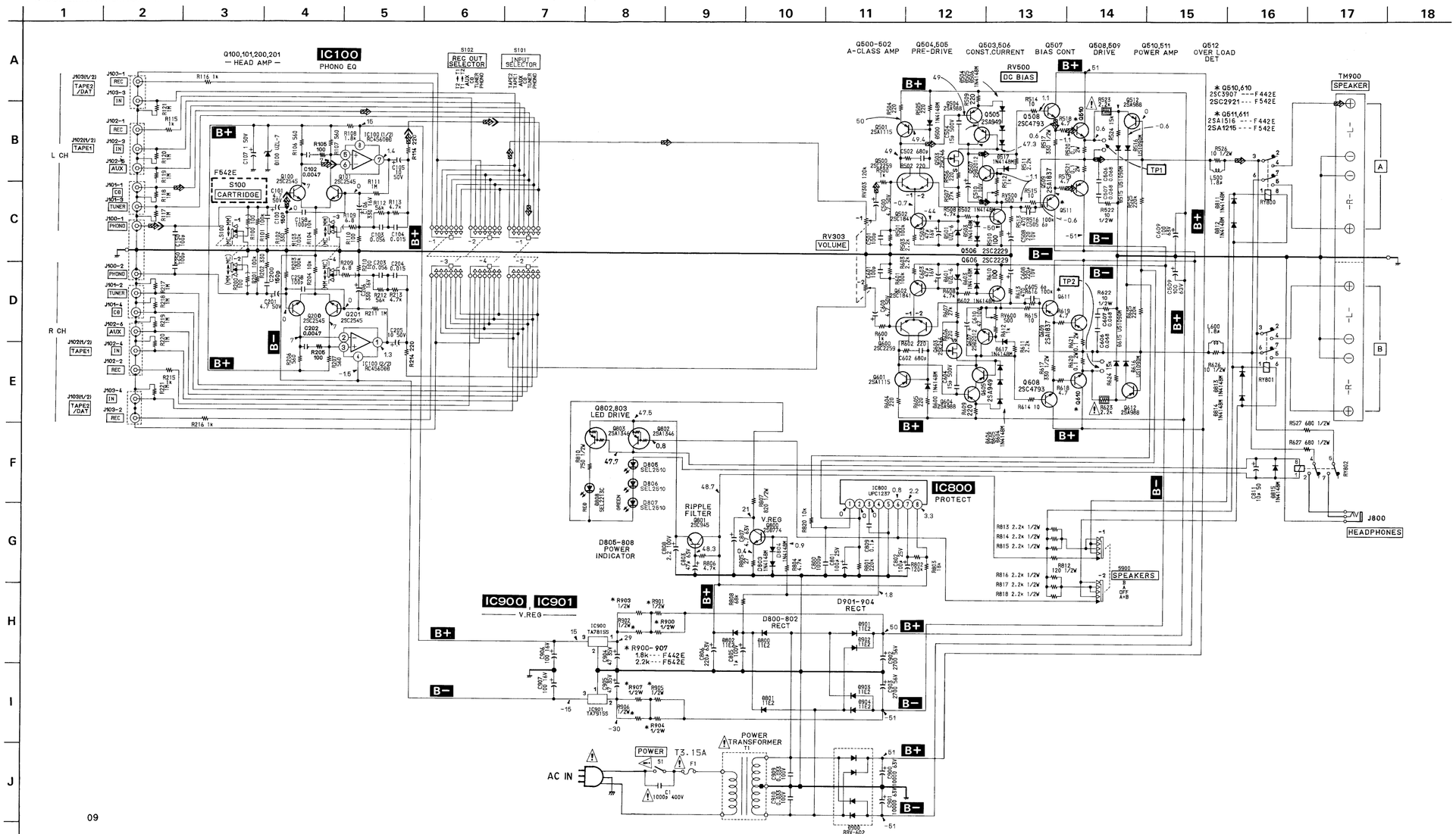
Note :

• ○— : parts extracted from the component side.

4-3. PRINTED WIRING BOARDS



4-4. SCHEMATIC DIAGRAM



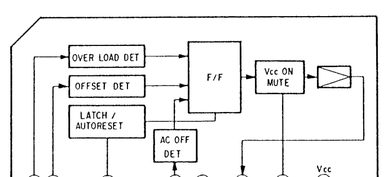
Note :

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B− : B− Line
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ▭▷ : CD
  - ▭▷▷▷ : PHONO

• IC BLOCK DIAGRAM
μ PC1237HA



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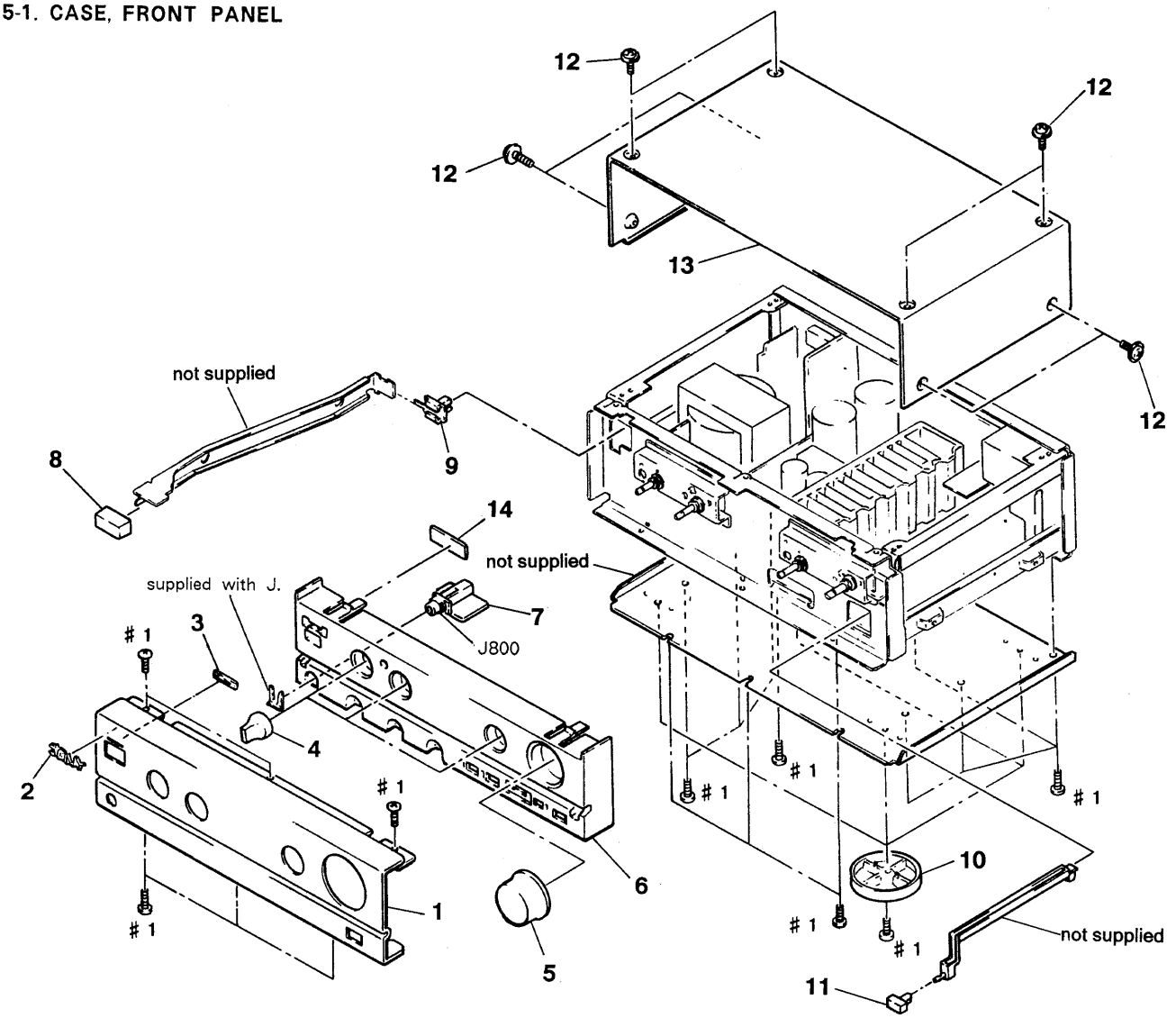
SECTION 5
EXPLODED VIEWS

NOTE:

- –XX, –X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

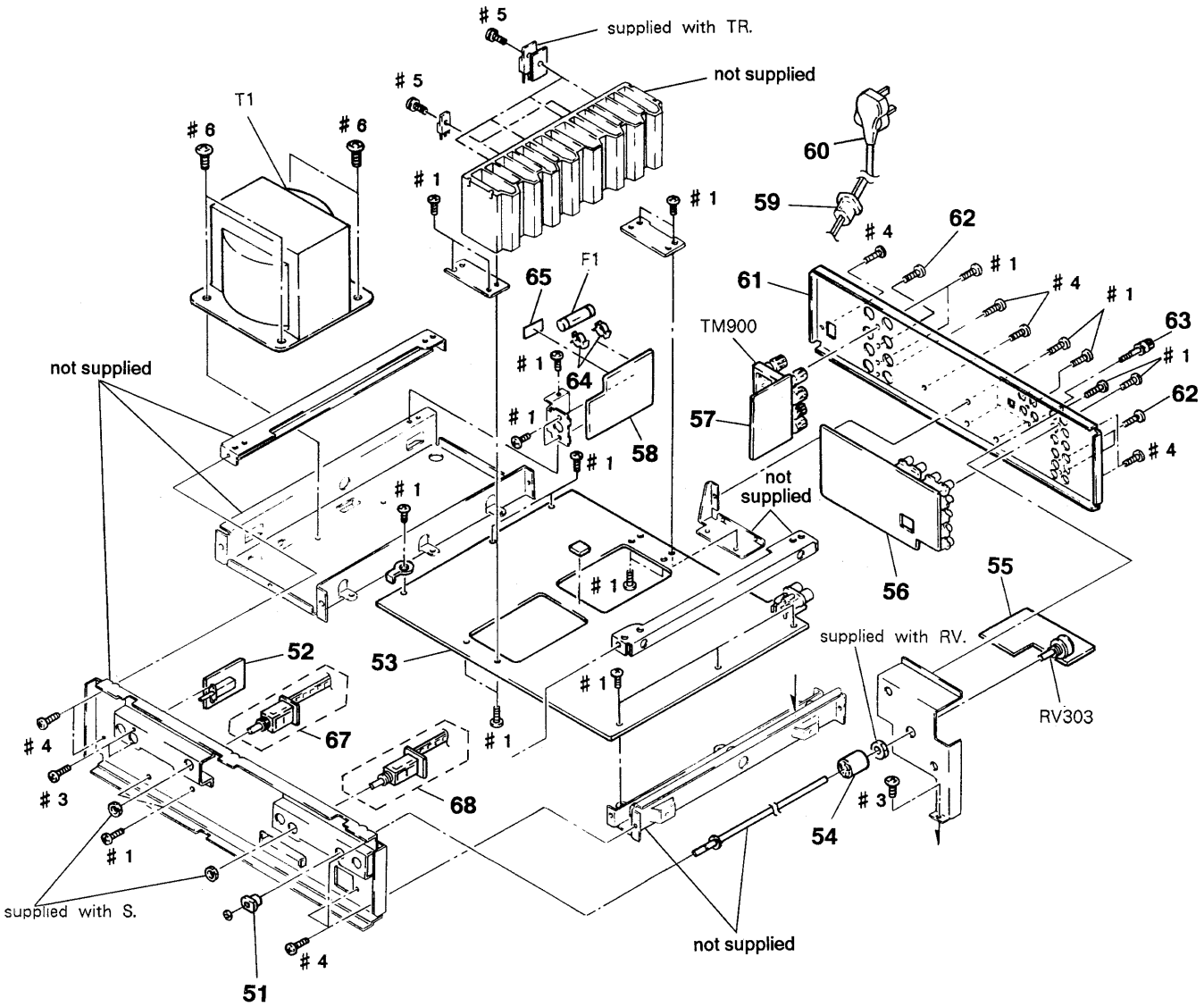
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. CASE, FRONT PANEL



Ref. No.	Part No.	Description	Remark
1	4-957-476-11	PANEL, FRONT (F542E:UK)	
1	4-957-476-21	PANEL, FRONT (F442E:UK)	
2	4-908-848-01	EMBLEM, SONY	
3	4-945-175-01	INDICATOR (PSW)	
4	4-945-601-01	KNOB (F25)	
5	X-4941-616-1	KNOB (R53) ASSY	
6	* 4-957-477-01	BASE, PANEL	
7	* 1-639-969-11	PC BOARD, HP	
8	4-929-289-01	BUTTON	
9	4-875-466-11	JOINT (F2), KNOB	
10	X-4941-617-1	FOOT (58175) ASSY	
11	4-947-011-01	BUTTON (F) (F542E:UK)	
12	3-704-366-01	SCREW (CASE) (M3X8)	
13	* 4-945-618-01	CASE	
14	* 1-639-971-11	PC BOARD, LED	

5-2. CHASSIS, BACK PANEL



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	* 4-945-610-01	BEARING, VOL	
52	* 1-639-970-11	PC BOARD, SW	
53	* A-4360-492-A	MAIN BOARD, COMPLETE (F442E:UK)	
53	* A-4360-493-A	MAIN BOARD, COMPLETE (F542E:UK)	
54	* 4-945-611-01	JOINT, VR	
55	* 1-639-963-11	PC BOARD, 470 VOL	
56	* 1-639-972-11	PC BOARD, INPUT	
57	* 1-639-964-11	PC BOARD, SP	
58	* 1-639-965-11	PC BOARD, AC	
59	* 3-703-244-00	BUSHING (2104), CORD	
60	⚠ 1-696-585-21	CORD, POWER	

Ref. No.	Part No.	Description	Remark
61	* 4-957-478-41	PANEL, BACK (F442E:UK)	
61	* 4-957-478-31	PANEL, BACK (F542E:UK)	
62	7-621-849-00	SCREW (BV/RING)	
63	4-947-010-01	SCREW, FEEDER FIXED	
64	1-533-225-11	HOLDER, FUSE	
65	4-949-520-20	LABEL (T4A), FUSE	
67	1-572-795-12	SWITCH, ROTARY SLIDE	
68	1-572-796-11	SWITCH, ROTARY SLIDE	
F1	⚠ 1-532-350-00	FUSE (4A 250V)	
T1	⚠ 1-423-599-11	TRANSFORMER, POWER (F442E:UK)	
T1	⚠ 1-423-600-11	TRANSFORMER, POWER (F542E:UK)	

MAIN | 470 VOL | SP | AC | LED

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- –XX, –X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example :
  uA.... : μA...., uPA.... : μPA....
  uPB.... : μPB...., uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark
	* A-4360-493-A	MAIN BOARD, COMPLETE (F542E:UK)			
	* A-4360-492-A	MAIN BOARD, COMPLETE (F442E:UK)			
		**********			
	* 1-639-963-11	470 VOL BOARD			
		**********			
	* 1-639-964-11	SP BOARD			
		********			
	* 1-639-965-11	AC BOARD			
		********			
	* 1-639-971-11	LED BOARD			
		*********			
	⚠ 1-533-225-11	HOLDER, FUSE			
	4-870-539-00	PLATE, GROUND			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3			
	7-682-547-04	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C1	1-161-741-00	CERAMIC	0.001uF	10%	400V
C100	1-164-075-11	CERAMIC	150PF	10%	50V
C101	1-123-369-00	ELECT	4.7uF	20%	50V
C102	1-161-377-00	CERAMIC	0.0047uF	30%	50V
C103	1-130-492-11	MYLAR	0.056uF	5%	50V
C104	1-130-485-00	MYLAR	0.015uF	5%	50V
C105	1-126-059-11	ELECT	10uF	20%	50V
C106	1-126-541-11	ELECT	330uF	20%	16V
C107	1-123-380-00	ELECT	1uF	20%	50V
C150	1-162-284-31	CERAMIC	150PF	10%	50V
C158	1-164-073-11	CERAMIC	100PF	10%	50V
C200	1-164-075-11	CERAMIC	150PF	10%	50V
C201	1-123-369-00	ELECT	4.7uF	20%	50V
C202	1-161-377-00	CERAMIC	0.0047uF	30%	50V
C203	1-130-492-11	MYLAR	0.056uF	5%	50V
C204	1-130-485-00	MYLAR	0.015uF	5%	50V
C205	1-126-059-11	ELECT	10uF	20%	50V
C206	1-126-541-11	ELECT	330uF	20%	16V
C250	1-162-284-31	CERAMIC	150PF	10%	50V
C258	1-164-073-11	CERAMIC	100PF	10%	50V
C500	1-123-369-00	ELECT	4.7uF	20%	50V
C501	1-164-073-11	CERAMIC	100PF	10%	50V
C502	1-164-083-11	CERAMIC	680PF	10%	50V
C503	1-124-477-11	ELECT	47uF	20%	25V
C504	1-102-316-00	CERAMIC	15PF	5%	500V
C505	1-102-943-00	CERAMIC	6.0PF	+-0.5PF	50V
C506	1-136-163-00	FILM	0.068uF	5%	50V
C507	1-136-163-00	FILM	0.068uF	5%	50V
C508	1-126-335-11	ELECT	220uF	20%	10V
C509	1-124-130-00	ELECT	100uF	20%	63V
C510	1-123-306-00	ELECT	47uF	20%	10V
C600	1-123-369-00	ELECT	4.7uF	20%	50V
C601	1-164-073-11	CERAMIC	100PF	10%	50V
C602	1-164-083-11	CERAMIC	680PF	10%	50V
C603	1-124-477-11	ELECT	47uF	20%	25V
C604	1-102-316-00	CERAMIC	15PF	5%	500V
C605	1-102-943-00	CERAMIC	6.0PF	+-0.5PF	50V
C606	1-136-163-00	FILM	0.068uF	5%	50V
C607	1-136-163-00	FILM	0.068uF	5%	50V
C608	1-126-335-11	ELECT	220uF	20%	10V
C609	1-124-130-00	ELECT	100uF	20%	63V
C610	1-123-306-00	ELECT	47uF	20%	10V
C800	1-164-085-11	CERAMIC	0.001uF	10%	50V
C801	1-124-478-11	ELECT	100uF	20%	25V
C802	1-124-478-11	ELECT	100uF	20%	25V
C803	1-124-918-11	ELECT	47uF	20%	63V
C805	1-124-791-11	ELECT	1.0uF	20%	100V
C806	1-124-919-11	ELECT	220uF	20%	63V
C807	1-124-927-11	ELECT	4.7uF	20%	100V
C808	1-124-925-11	ELECT	2.2uF	20%	100V

MAIN 470 VOL SP AC LED

Ref. No.	Part No.	Description			Remark
C809	1-136-165-00	FILM	0.1uF	5%	50V
C811	1-124-907-11	ELECT	10uF	20%	50V
C900	1-125-685-11	ELECT	10000uF	20%	63V
C901	1-125-685-11	ELECT	10000uF	20%	63V
C902	1-128-358-11	ELECT	2700uF	20%	56V
C903	1-128-358-11	ELECT	2700uF	20%	56V
C904	1-124-918-11	ELECT	47uF	20%	63V
C905	1-124-918-11	ELECT	47uF	20%	63V
C906	1-124-122-11	ELECT	100uF	20%	50V
C907	1-124-122-11	ELECT	100uF	20%	50V
C909	1-106-379-12	MYLAR	0.033uF	5%	200V
C910	1-106-379-12	MYLAR	0.033uF	5%	200V
		< CONNECTOR >			
CNP1	* 1-568-226-11	PIN, CONNECTOR 2P			
CNP2	* 1-564-321-21	PIN, CONNECTOR 2P			
CNP100	1-560-941-00	PIN, CONNECTOR 4P			
CNP700	* 1-564-506-11	PLUG, CONNECTOR 3P			
CNP701	* 1-564-510-11	PLUG, CONNECTOR 7P			
CNP702	* 1-564-509-11	PLUG, CONNECTOR 6P			
CNP703	* 1-564-515-11	PLUG, CONNECTOR 12P			
CNP704	* 1-564-104-00	PIN, CONNECTOR 3P			
CNP804	* 1-564-337-00	PIN, CONNECTOR 3P			
		< DIODE >			
D100	8-719-933-50	DIODE UZL-7H2-TP			
D500	8-719-912-20	DIODE 1SS120			
D501	8-719-933-36	DIODE UZL-6H2-TP			
D502	8-719-912-20	DIODE 1SS120			
D503	8-719-912-20	DIODE 1SS120			
D504	8-719-912-20	DIODE 1SS120			
D505	8-719-912-20	DIODE 1SS120			
D506	8-719-912-20	DIODE 1SS120			
D515	8-719-815-85	DIODE 1S1585			
D516	8-719-815-85	DIODE 1S1585			
D517	8-719-912-20	DIODE 1SS120			
D600	8-719-912-20	DIODE 1SS120			
D601	8-719-933-36	DIODE UZL-6H2-TP			
D602	8-719-912-20	DIODE 1SS120			
D603	8-719-912-20	DIODE 1SS120			
D604	8-719-912-20	DIODE 1SS120			
D605	8-719-912-20	DIODE 1SS120			
D606	8-719-912-20	DIODE 1SS120			
D615	8-719-815-85	DIODE 1S1585			
D616	8-719-815-85	DIODE 1S1585			
D617	8-719-912-20	DIODE 1SS120			
D800	8-719-200-82	DIODE 11ES2			
D801	8-719-200-82	DIODE 11ES2			
D802	8-719-200-82	DIODE 11ES2			
D803	8-719-912-20	DIODE 1SS120			
D804	8-719-912-20	DIODE 1SS120			
D805	8-719-303-02	DIODE SEL2510C-D-TP2			
D806	8-719-303-02	DIODE SEL2510C-D-TP2			
D807	8-719-303-02	DIODE SEL2510C-D-TP2			
D808	8-719-302-23	DIODE SEL2213C-C-TP			
D811	8-719-912-20	DIODE 1SS120			
D812	8-719-912-20	DIODE 1SS120			
D813	8-719-912-20	DIODE 1SS120			
D814	8-719-912-20	DIODE 1SS120			
D815	8-719-912-20	DIODE 1SS120			
D900	8-719-302-38	DIODE RBV-602-01			
D901	8-719-200-82	DIODE 11ES2			
D902	8-719-200-82	DIODE 11ES2			
D903	8-719-200-82	DIODE 11ES2			
D904	8-719-200-82	DIODE 11ES2			
		< FUSE >			
F1	⚠ 1-532-350-00	FUSE (4A 250V)			
		< IC >			
IC100	8-759-981-98	IC RC4560DD			
IC800	8-759-111-68	IC uPC1237HA			
IC900	8-759-231-59	IC TA7815S			
IC901	8-759-245-87	IC TA7915S			
		< JACK >			
J100	* 1-573-140-21	JACK, PIN 2P (PHONO IN)			
		< COIL >			
L500	1-428-133-11	COIL, AIR-CORE 1.8uH			
L600	1-428-133-11	COIL, AIR-CORE 1.8uH			
		< TRANSISTOR >			
Q100	8-729-354-52	TRANSISTOR 2SC2545TP-E			
Q101	8-729-354-52	TRANSISTOR 2SC2545TP-E			
Q200	8-729-354-52	TRANSISTOR 2SC2545TP-E			
Q201	8-729-354-52	TRANSISTOR 2SC2545TP-E			
Q500	8-729-620-17	TRANSISTOR 2SC2259-FG			
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q502	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA			
Q503	8-729-224-62	TRANSISTOR 2SK246GR-TPE2			
Q504	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q505	8-729-021-74	TRANSISTOR 2SA949TP			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN | 470 VOL | SP | AC | LED

Ref. No.	Part No.	Description	Remark
Q506	8-729-021-73	TRANSISTOR 2SC2229	
Q507	8-729-209-15	TRANSISTOR 2SD2012	
Q508	8-729-017-06	TRANSISTOR 2SC4793-LK	
Q509	8-729-017-05	TRANSISTOR 2SA1837-LK	
Q510	8-729-320-04	TRANSISTOR 2SC2921M-Y (F542E:UK)	
Q510	8-729-020-90	TRANSISTOR 2SC3907 (F442E:UK)	
Q511	8-729-320-02	TRANSISTOR 2SA1215M-Y (F542E:UK)	
Q511	8-729-020-91	TRANSISTOR 2SA1516 (F442E:UK)	
Q512	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q600	8-729-620-17	TRANSISTOR 2SC2259-FG	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q603	8-729-224-62	TRANSISTOR 2SK246GR-TPE2	
Q604	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q605	8-729-021-74	TRANSISTOR 2SA949	
Q606	8-729-021-73	TRANSISTOR 2SC2229-T-LK	
Q607	8-729-209-15	TRANSISTOR 2SD2012	
Q608	8-729-017-06	TRANSISTOR 2SC4793-LK	
Q609	8-729-017-05	TRANSISTOR 2SA1516-LK	
Q610	8-729-320-04	TRANSISTOR 2SC2921M-Y (F542E:UK)	
Q610	8-729-020-90	TRANSISTOR 2SC3907 (F442E:UK)	
Q611	8-729-320-02	TRANSISTOR 2SA1215M-Y (F542E:UK)	
Q611	8-729-020-91	TRANSISTOR 2SA1516 (F442E:UK)	
Q612	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q800	8-729-140-96	TRANSISTOR 2SD774-T-34	
Q801	8-729-194-57	TRANSISTOR 2SC945TP-QP	
Q802	8-729-900-63	TRANSISTOR DTA124ES	
Q803	8-729-900-63	TRANSISTOR DTA124ES	

< RESISTOR >

R100	1-247-700-11	CARBON	100	5%	1/4W (F542E:UK)
R101	1-249-469-11	CARBON	100K	5%	1/4W
R102	1-247-706-11	CARBON	330	5%	1/4W
R103	1-249-469-11	CARBON	100K	5%	1/4W
R104	1-247-725-11	CARBON	10K	5%	1/4W
R105	1-247-700-11	CARBON	100	5%	1/4W
R106	1-247-710-11	CARBON	560	5%	1/4W
R107	1-247-710-11	CARBON	560	5%	1/4W
R108	1-247-716-11	CARBON	1.8K	5%	1/4W
R109	1-249-457-11	CARBON	6.8	5%	1/4W (F542E:UK)
R110	1-247-700-11	CARBON	100	5%	1/4W
R111	1-246-545-00	CARBON	1.0M	5%	1/4W
R112	1-249-844-11	CARBON	56K	1%	1/2W
R113	1-249-818-11	CARBON	4.7K	1%	1/2W
R114	1-247-704-11	CARBON	220	5%	1/4W
R200	1-247-700-11	CARBON	100	5%	1/4W (F542E:UK)

Ref. No.	Part No.	Description			Remark
R201	1-249-469-11	CARBON	100K	5%	1/4W
R202	1-247-706-11	CARBON	330	5%	1/4W
R203	1-249-469-11	CARBON	100K	5%	1/4W
R204	1-247-725-11	CARBON	10K	5%	1/4W
R205	1-247-700-11	CARBON	100	5%	1/4W
R206	1-247-710-11	CARBON	560	5%	1/4W
R207	1-247-710-11	CARBON	560	5%	1/4W
R209	1-249-457-11	CARBON	6.8	5%	1/4W (F542E:UK)
R210	1-247-700-11	CARBON	100	5%	1/4W
R211	1-246-545-00	CARBON	1.0M	5%	1/4W
R212	1-249-844-11	CARBON	56K	1%	1/2W
R213	1-249-818-11	CARBON	4.7K	1%	1/2W
R214	1-247-704-11	CARBON	220	5%	1/4W
R500	1-247-713-11	CARBON	1K	5%	1/4W
R501	1-249-469-11	CARBON	100K	5%	1/4W
R502	1-247-704-11	CARBON	220	5%	1/4W
R503	1-247-717-11	CARBON	2.2K	5%	1/4W
R504	1-247-704-11	CARBON	220	5%	1/4W
R505	1-247-704-11	CARBON	220	5%	1/4W
R506	1-247-704-11	CARBON	220	5%	1/4W
R507	1-249-463-11	CARBON	27K	5%	1/4W
R508	1-247-721-11	CARBON	4.7K	5%	1/4W
R509	1-249-536-11	CARBON	220	5%	1/4W
R510	1-249-528-11	CARBON	100	5%	1/4W
R511	1-247-717-11	CARBON	2.2K	5%	1/4W
R512	1-247-713-11	CARBON	1K	5%	1/4W
R513	1-249-915-11	CARBON	470	1%	1/4W
R514	⚠ 1-247-688-11	CARBON	10	5%	1/4W
R515	⚠ 1-247-688-11	CARBON	10	5%	1/4W
R516	1-249-469-11	CARBON	100K	5%	1/4W
R517	⚠ 1-247-745-11	CARBON	330	5%	1/2W
R518	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W
R519	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W
R520	1-217-611-00	RES, METAL PLATE 0.1			
R521	1-217-611-00	RES, METAL PLATE 0.1			
R522	1-247-727-11	CARBON	10	5%	1/2W
R523	⚠ 1-247-717-11	CARBON	2.2K	5%	1/4W
R524	1-249-460-11	CARBON	15K	5%	1/4W
R525	1-247-887-00	CARBON	220K	5%	1/4W
R526	1-247-727-11	CARBON	10	5%	1/2W
R527	1-247-750-11	CARBON	680	5%	1/2W
R600	1-247-713-11	CARBON	1K	5%	1/4W
R601	1-249-469-11	CARBON	100K	5%	1/4W
R602	1-247-704-11	CARBON	220	5%	1/4W
R603	1-247-717-11	CARBON	2.2K	5%	1/4W
R604	1-247-704-11	CARBON	220	5%	1/4W
R605	1-247-704-11	CARBON	220	5%	1/4W
R606	1-247-704-11	CARBON	220	5%	1/4W
R607	1-249-463-11	CARBON	27K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN 470 VOL SP AC LED HP SW INPUT

Ref. No.	Part No.	Description			Remark
R608	1-247-721-11	CARBON	4.7K	5%	1/4W
R609	1-249-536-11	CARBON	220	5%	1/4W
R610	1-249-528-11	CARBON	100	5%	1/4W
R611	1-247-717-11	CARBON	2.2K	5%	1/4W
R612	1-247-713-11	CARBON	1K	5%	1/4W
R613	1-249-915-11	CARBON	470	1%	1/4W
R614	⚠ 1-247-688-11	CARBON	10	5%	1/4W
R615	⚠ 1-247-688-11	CARBON	10	5%	1/4W
R616	1-249-469-11	CARBON	100K	5%	1/4W
R617	⚠ 1-247-745-11	CARBON	330	5%	1/2W
R618	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W
R619	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W
R620	1-217-611-00	RES, METAL PLATE 0.1			
R621	1-217-611-00	RES, METAL PLATE 0.1			
R622	1-247-727-11	CARBON	10	5%	1/2W
R623	⚠ 1-247-717-11	CARBON	2.2K	5%	1/4W
R624	1-249-460-11	CARBON	15K	5%	1/4W
R625	1-247-887-00	CARBON	220K	5%	1/4W
R626	1-247-727-11	CARBON	10	5%	1/2W
R627	1-247-750-11	CARBON	680	5%	1/2W
R801	1-247-887-00	CARBON	220K	5%	1/4W
R802	1-247-881-00	CARBON	120K	5%	1/4W
R803	1-249-461-11	CARBON	18K	5%	1/4W
R804	1-247-721-11	CARBON	4.7K	5%	1/4W
R805	1-247-693-11	CARBON	27	5%	1/4W
R806	1-247-721-11	CARBON	4.7K	5%	1/4W
R807	1-247-751-11	CARBON	820	5%	1/2W
R808	1-249-467-11	CARBON	68K	5%	1/4W
R810	1-247-237-00	CARBON	750	5%	1/2W
R812	1-247-740-11	CARBON	120	5%	1/2W
R820	1-247-725-11	CARBON	10K	5%	1/4W
R900	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R900	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R901	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R901	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R902	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R902	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R903	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R903	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R904	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R904	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R905	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R905	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
R906	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R906	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)

Ref. No.	Part No.	Description			Remark
R907	1-247-755-11	CARBON	1.8K	5%	1/2W (F442E:UK)
R907	1-247-756-11	CARBON	2.2K	5%	1/2W (F542E:UK)
		< VARIABLE RESISTOR >			
RV303	1-241-557-11	RES, VAR, CARBON 120K/120K (VOLUME) (F442E:UK)			
RV303	1-241-558-11	RES, VAR, CARBON 120K/120K (VOLUME) (F542E:UK)			
RV500	1-237-455-11	RES, ADJ, CARBON 500 (DC BIAS)			
RV600	1-237-455-11	RES, ADJ, CARBON 500 (DC BIAS)			
		< RELAY >			
RY800	1-515-501-00	RELAY			
RY801	1-515-501-00	RELAY			
RY802	1-515-787-21	RELAY			
		< TERMINAL >			
TM900	1-537-228-11	TERMINAL BOARD (SP)			
		< SWITCH >			
S1	⚠ 1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY)			
S100	1-571-111-11	SWITCH, PUSH (1 KEY) (CARTRIDGE)			
**********					
*	1-639-969-11	HP BOARD			
		********			
*	1-639-970-11	SW BOARD			
		********			
*	1-639-972-11	INPUT BOARD			
		**********			
		< CONNECTOR >			
CNJ100	1-562-087-00	SOCKET, CONNECTOR 4P			
CNP706 *	1-564-508-11	PLUG, CONNECTOR 5P			
		< JACK >			
J101 *	1-573-142-31	JACK, PIN 4P (CD IN) (TUNER IN)			
J102	1-568-978-11	JACK 6P (TAPE 1)			
J103 *	1-573-142-21	JACK, PIN 4P (TAPE 2/DAT)			
J800	1-507-796-71	JACK (HEADPHONES)			
		< RESISTOR >			
R115	1-247-713-11	CARBON	1K	5%	1/4W
R116	1-247-713-11	CARBON	1K	5%	1/4W
R117	1-246-545-00	CARBON	1.0M	5%	1/4W
R118	1-246-545-00	CARBON	1.0M	5%	1/4W
R119	1-246-545-00	CARBON	1.0M	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

HP SW INPUT

Ref. No.	Part No.	Description			Remark
R120	1-246-545-00	CARBON	1.0M	5% 1/4W	
R121	1-246-545-00	CARBON	1.0M	5% 1/4W	
R215	1-247-713-11	CARBON	1K	5% 1/4W	
R216	1-247-713-11	CARBON	1K	5% 1/4W	
R217	1-246-545-00	CARBON	1.0M	5% 1/4W	
R218	1-246-545-00	CARBON	1.0M	5% 1/4W	
R219	1-246-545-00	CARBON	1.0M	5% 1/4W	
R220	1-246-545-00	CARBON	1.0M	5% 1/4W	
R221	1-246-545-00	CARBON	1.0M	5% 1/4W	
R813	1-247-756-11	CARBON	2.2K	5% 1/2W	
R814	1-247-756-11	CARBON	2.2K	5% 1/2W	
R815	1-247-756-11	CARBON	2.2K	5% 1/2W	
R816	1-247-756-11	CARBON	2.2K	5% 1/2W	
R817	1-247-756-11	CARBON	2.2K	5% 1/2W	
R818	1-247-756-11	CARBON	2.2K	5% 1/2W	
		< SWITCH >			
S101	1-571-669-11	SWITCH, SLIDE (INPUT SELECTOR)			
S102	1-571-115-11	SWITCH, SLIDE (REC OUT SELECTOR)			
S900	1-572-797-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
		MISCELLANEOUS			
60	⚠ 1-696-585-21	CORD, POWER			
F1	⚠ 1-532-350-00	FUSE (4A 250V)			
T1	⚠ 1-423-599-11	TRANSFORMER, POWER (F442E:UK)			
T1	⚠ 1-423-600-11	TRANSFORMER, POWER (F542E:UK)			
		ACCESSORY & PACKING MATERIAL			
	3-756-899-11	MANUAL, INSTRUCTION (ENGLISH)			
*	4-931-985-01	CUSHION			
*	4-958-310-01	INDIVIDUAL CARTON (F542E:UK)			
*	4-958-309-01	INDIVIDUAL CARTON (F442E:UK)			

HARDWARE LIST

# 1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
# 2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
# 3	7-682-547-04	SCREW +BVTT 3X6 (S)	
# 4	7-682-547-09	SCREW +BVTT 3X6 (S)	
# 5	7-682-549-04	SCREW +BVTT 3X10 (S)	
# 6	7-682-560-04	SCREW +BVTT 4X6 (S)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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Audio Group

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